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EU DECLARATION OF CONFORMITY



EFE300 Series

We, TDK Lambda UK Limited, of Kingsley Avenue, Ilfracombe, Devon, EX34 8ES declare under our sole responsibility that the TDK-Lambda power supplies, as detailed on the attached products covered sheets, comply with the provisions of the following European Directives and are eligible to bear the CE mark:

Low Voltage	Directive 2014/35/EU
EMC	Directive 2014/30/EU
RoHS	Directive 2011/65/EU (as amended by 2015/863)

Assurance of conformance of the described product with the provisions of the stated EC Directive is given through compliance to the following standards:

Electrical Safety (LVD)	EN 62368-1:2014/AC:2015
Electromagnetic Compatibility (EMC)	EN 61000-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN 61204-3:2000 EN 55024:2010 EN 55032:2015
Restriction of Hazardous Substances (RoHS)	EN 63000:2018

Our representative in the EU is TDK-Lambda Germany GmbH, located at Karl-Bold-Str. 40, 77855 Achern, Germany.

Note: The EMC performance of a component power supply will be affected by the final installation, compliance to the stated EMC standards and conformance to the EMC Directive must be confirmed after installation by the final equipment manufacturer. For guidance with respect to test conditions please visit our website at https://emea.lambda.tdk.com/EMC_Guidance or contact your local TDK-Lambda sales office.

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UK DECLARATION OF CONFORMITY



EFE300 Series

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Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility Regulations 2016

Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment Regulations 2012

Assurance of conformance of the described product with the provisions of the stated UK Regulation is given through compliance to the following standards:

Electrical Safety	EN 62368-1:2014/AC:2015
Electromagnetic Compatibility (EMC)	EN 61000-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN 61204-3:2000 EN 55024:2010 EN 55032:2015
Restriction of Hazardous Substances (RoHS)	EN 63000:2018

Note: The EMC performance of a component power supply will be affected by the final installation, compliance to the stated EMC standards and conformance to the EMC Regulation must be confirmed after installation by the final equipment manufacturer. For guidance with respect to test conditions please visit our website https://emea.lambda.tdk.com/EMC_Guidance or contact your local TDK-Lambda sales office.

EFE300 Series Products Covered

Unit Configuration Code:

EFE300 or EFE300x-a-bcde-f-g-hij
(may be prefixed by NS - #/where # may be any number of characters indicating non-safety related model differences). Products may additionally be marked with U2x or Y2x where x can be any number of characters indicating non-safety related model differences.

May be prefixed by SP followed by / or – (SP represents a sales code)

Where

x = Nothing or J for Japanese models (may have non-safety differences)

a = Channel 1 Output Voltage: any voltage within the Adjustment Range for the Vout (nom) from the Output Table below, e.g. 12.8 for 12.8V output (12Vout nom), 24.6 for 24.6V output (24Vout nom).

b = CN for Open Frame with fan output,
CU for U chassis with fan output,
CC for U chassis and cover with fan output,
EC for U chassis and cover with fan.

c = M for molex input connector or equivalent, J for JST connector or equivalent

d = D for dual fused input or L for a single fuse in the live line.

e = S for Standard Leakage, L for Low Leakage, R for Reduced Leakage, T for Tiny Leakage.*

f = Nothing for horizontal output connector, V for vertical output connector.

g = Nothing for standard channel 1 output voltage, xD or xPD where D is for units with programmed negative load regulation, PD is for units with programmed positive load regulation, x is the voltage of the regulation in 100mVolts and is within the Output Adjustment range (example, 7D = 0.7V of negative load regulation, 24PD = 2.4V of positive load regulation).

hij = Three numbers from 0 to 9 which denotes various output voltage/current settings within the specified ranges of each output for a particular unit or blank for standard output settings. (may define non-safety related parameters/feature, e.g. reduced primary current limit, reduced OVP)

* At 440Hz, leakage current is > 3.5mA and therefore must be assessed in the end use application.

** L < 300uA leakage, R < 150uA leakage and T < 75uA leakage.

ELECTRICAL & THERMAL RATINGS:

Input Parameters

	60950-1, 62368-1	61010-1
Nominal Input Voltage Range	100 - 240V AC or 133 - 318VDC**	100-240V AC
Maximum Input Voltage Range	90* - 264V AC or 120 - 350VDC**	90*-264V AC
Input Frequency	45- 440Hz maximum or DC**	45-440Hz maximum
Maximum Input Current	4.7A rms or 3.8A DC**	4.7A rms
Maximum Input Current (400W peak power for 10 second maximum)	6.4A rms or 4.4A DC**	6.4A rms
Inrush Current	<20A at 25°C	<20A at 25°C

* PSU linearly derated from 90Vac to 85Vac 4W per volt to 280W

** DC input ratings are for 60950-1, specific Non-standards only.

All ratings apply for ambient temperatures up to 50°C. From 50 to 70°C the output power is derated at 2.5% per °C.

Output Parameters

Output Channel	Voltage out nom (V)	Adjustment Range (V)	Max Output Current (A)	Max Output Power (W)
CH1	12	11.4 – 13.2*	25	300 (400**)
	24	22.8 – 26.4*	12.5	300 (400**)
Fan output	12	Fixed	0.25	3

* Can be adjusted from nominal at the factory only

** Peak power of 400W for 10 seconds maximum, maximum rms power of 300W

Maximum continuous power output 300W (excluding fan output)

Output limitations

All outputs are ES1.

All outputs have functional spacings to earth, and due consideration must be given to this in the end product design.

EFE300 Series Signature Page

Name of Authorized Signatory	Christopher Haas
Signature of Authorized Signatory	
Position of Authorized Signatory	Head of Quality & Compliance Europe
Date	23 September 2021
Date when this CE declaration first issued	19 December 2008
Date when this UKCA declaration first issued	6 April 2021
Place where signed	Achern, Germany

This declaration is signed for and on behalf of TDK-Lambda